QC ABSTRACT

Nameof Work: Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	18.48 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	77.28 Cum	5	5	Concrete Cube Compressive Strength	-
3	Steel	4.64 Tonne	1	1	-	-
4	Slab (100mm)	201.60 Sqm	1	1	Concrete Core Compressive Strength	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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ಶಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date: 01.07.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. B K Nagendra,** Contractor, Bangalore.
NAME OF THE WORK	:	Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		June - 2022
DATE OF TESTING		01.07.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date : 01.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency :**Sri. B K Nagendra, Contractor, Bangalore.**

Name of Work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 01.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	93	9.30	9.30	90.7	90-100
2.36	127	12.70	22.00	78.0	75-100
1.18	175	17.50	39.50	60.5	55-90
600 Micron	169	16.90	56.40	43.6	35-59
300 Micron	225	22.50	78.90	21.1	8-30
150 Micron	137	13.70	92.60	7.4	0-10

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Srikanth. S. C.

Authorised Signatory

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date : 01.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

IS 2116-1980

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. B K Nagendra, Contractor, Bangalore.**

Name of Work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 01.07.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	38	3.80	5.40	94.6	70-100
600 Micron	84	8.40	13.80	86.2	40-100
300 Micron	239	23.90	37.70	62.3	5-70
150 Micron	481	48.10	85.80	14.2	0-15

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date : 01.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency :**Sri. B K Nagendra, Contractor, Bangalore.**

Name of Work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 01.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	183	3.7	3.7	96.3	95-100
10	2413	48.3	51.9	48.1	25-55
4.75	1925	38.5	90.4	9.6	0-10

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date : 01.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency :**Sri. B K Nagendra, Contractor, Bangalore.**

Name of Work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 01.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	190	1.27	1.27	98.73	95-100
20	8236	54.91	56.17	43.83	30-70
10	3214	21.43	77.60	22.40	10-35
4.75	2855	19.03	96.63	3.37	0-5

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23

Date : 03.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. B K Nagendra, Contractor, Bangalore.

Name of Work :Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 03.07.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	545	642	1.18	14
2	TMT	10	0.621	557	655	1.18	15.5
3	TMT	12	0.89	569	666	1.17	16

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date: 11.07.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	Sri. B K Nagendra, Contractor, Bangalore.
Name of Work	:	Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	11.07.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.379	2412.79	1.60	0.957	32.20	16.40	17.71	16.95	21.18
2	50.00	82.00	0.387	2403.63	1.64	0.961	32.70	16.65	17.99	17.29	21.61
3	50.00	84.00	0.405	2455.53	1.68	0.965	33.30	16.96	18.32	17.68	22.10

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date: 13.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. B K Nagendra, Contractor, Bangalore.**
Name of the work	: Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	13.07.2022	8.188	336.3	14.95
2	06.07.2022	13.07.2022	8.169	346.5	15.40
3	06.07.2022	13.07.2022	8.154	352.8	15.68

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date: 13.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. B K Nagendra, Contractor, Bangalore.**

Name of the work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	13.07.2022	8.184	332.3	14.77
2	06.07.2022	13.07.2022	8.169	324.6	14.43
3	06.07.2022	13.07.2022	8.152	356.2	15.83

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23

Date: 14.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. B K Nagendra, Contractor, Bangalore.**

Name of the work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.07.2022	14.07.2022	8.189	356.3	15.84
2	07.07.2022	14.07.2022	8.168	336.2	14.94
3	07.07.2022	14.07.2022	8.145	345.2	15.34

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Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date: 14.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. B K Nagendra, Contractor, Bangalore.**

Name of the work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.07.2022	14.07.2022	8.190	349.6	15.54
2	07.07.2022	14.07.2022	8.184	336.3	14.95
3	07.07.2022	14.07.2022	8.152	322.5	14.33

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Srikanth. S. C.

Authorised Signatory

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BKN/W.No.14/2022-23 Date: 14.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. B K Nagendra, Contractor, Bangalore.**

Name of the work : Maintenance & Repairs of Footpath and Roads in ward No.14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.07.2022	14.07.2022	8.166	328.3	14.59
2	07.07.2022	14.07.2022	8.155	336.5	14.96
3	07.07.2022	14.07.2022	8.149	345.5	15.36

Note:

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